

ABSTRACT

Disclosed is the provision of a non-aging, highly anti-seed and anti-black-speck steel plate for enameling without relying upon decarbonization-denitrification annealing involving increased production cost, and without the addition of expensive elements, such as niobium and titanium involving increased alloying cost. This steel plate is produced by adopting a steel composition comprising, by weight, carbon: not more than 0.0018%, silicon: not more than 0.020%, manganese: 0.10 to 0.30%, phosphorus: 0.010 to 0.030%, sulfur: not more than 0.030%, aluminum: not more than 0.005%, nitrogen: 0.0008 to 0.0050%, boron: not more than 0.0050% and not less than 0.6 time the nitrogen content, and oxygen: 0.010 to 0.05%, and regulating the chemical composition of the steel and regulating mainly hot rolling conditions to regulate the form of nitrides.

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